

Ideation Phase

LITERATURE SURVEY

Date	1 September 2022
Team ID	PNT2022TMID48154
Project Name	IoT Based Safety Gadget for Child Safety Monitoring and Notification
Maximum Marks	4 Marks

S.NO	TITLE	AUTHOR	PUBLISHED IN	ABSTRACT
1	IoT-based Child Security Monitoring System	Lai Yi Heng Intan Farahana Binti Kamsin	Proceedings of the 3rd International Conference on Integrated Intelligent Computing Communication & Security (ICIIC) in year 2021	To propose a child security smart band utilizing IoT technology. Online questionnaire and semi-structured interview are methodologies used to collect data. The online questionnaire gains feedbacks by sending questions electronically, where answers need to be submitted online. In the semi structured interview, researcher meets and asks respondents some predetermined questions while other being asked are not planned in advanced. Through information obtained, a smart band have been proposed to monitor the safety of children. By this, parents know what is happening remotely and can take actions if something goes wrong.

2	Smart IOT Device for Child Safety and Tracking	M Nandini Priyanka, S Murugan, K N H Srinivas, T D S Sarveswararao, E Kusuma Kumari.	International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-8 Issue-8 June, 2019	A smart IoT device for child safety and tracking is developed to help the parents to locate and monitor their children. The system is developed using LinkIt ONE board programmed in embedded C and interfaced with temperature, heartbeat, touch sensors and also GPS, GSM & digital camera modules. The novelty of the work is that the system automatically alerts the parent/caretaker by
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				<p>sending SMS, when immediate attention is required for the child during emergency. The parameters such as touch, temperature & heartbeat of the child are used for parametric analysis and results are plotted for the same.</p>
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3	IoT Based Smart Gadget for Child Safety and Tracking	N. Manjunatha H. M. Jayashree N. Komal K. Nayana	International Journal of Research in Engineering, Science and Management Volume-3,	<p>Child safety can be ensured by this gadget which can be tracked via its GPS locations and also a panic button on gadget is provided to alert the parent via GSM module calling for help.</p> <p>Parental android app is developed to manage and track the device anytime. Health monitoring system on gadget checking for parameters like heart beat/pulse rate and temperature is included which can be monitored on parental app. Gadget also monitors whether it is plugged on hand or not using contact switch and alerts the parent as soon as it is unplugged.</p>
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4	CHILD MONITORING SYSTEM - TAGSY	Kaushik Gupta, Mahima Sukal, Viral Sonavadia	International Research Journal of Modernization in Engineering Technology and Science Volume:04/Issue:04/April-2022 Impact	<p>It proposes a smart IoT Based device that can help reduce parents' insecurity with regards to their children's whereabouts in real-time. The project aims to create a system that allows the parents to keep a track of their children when they are out of their sight. This is done using a concealed WFP-enabled device worn by the child which is connected to the parents' smartphone using a mobile network. This Child Monitoring system helps monitor or track the child and their activities from anywhere in the world</p>
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5	A Hybrid Model on Child Security and Activities	Dr. R. Kamalraj Dr. M. Sakthivel	Proceedings of the International Conference on Inventive Research	<p>Child safety issue can be monitored by using IoT components and sensors to check in the child environment whether people with unacceptable</p>
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	Monitoring System using IoT		in Computing Applications (ICIRCA 2018)	<p>behavior are moving. If children close with them, then the system has to give an alert message that someone stands with the child. By tracing the locations of the children, the parents can able locate where the problem is and how they can help the child from such issues. The Alcohol and Smoke Gas Sensor are recommended along with Blood Pressure sensor to check whether the child in any abnormal conditions</p>
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